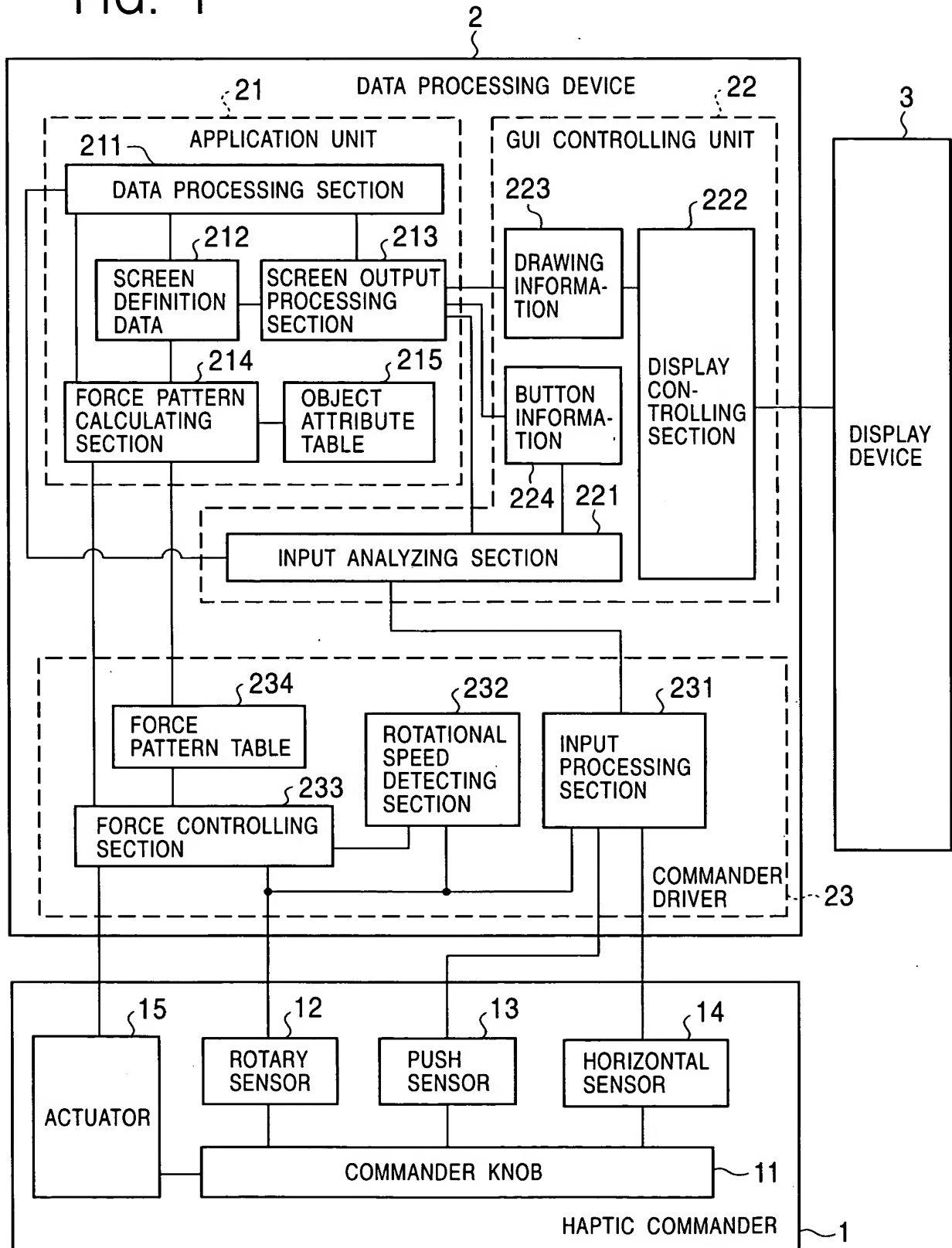


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FIG. 1



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FIG. 2A

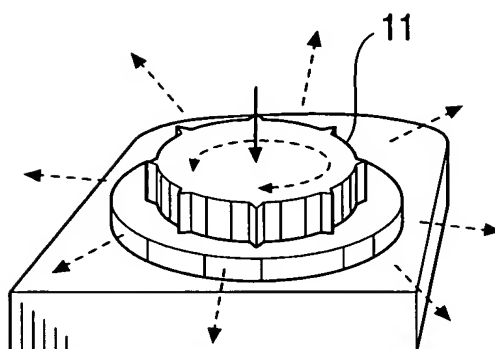


FIG. 2B

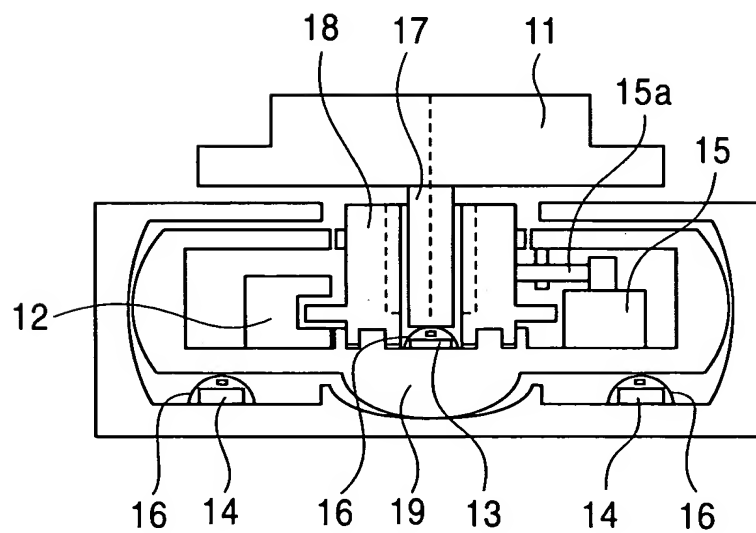


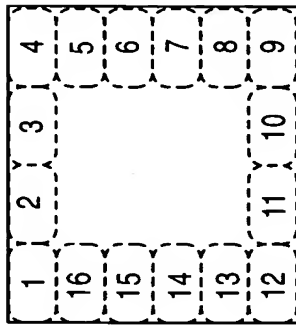
FIG. 3A

DIRECTION OF ROTATION	ANGLE $\theta$	FORCE F
CLOCKWISE	$\vdots$	$\vdots$
	$2\phi$	$G3(\theta)$
	$\phi$	$G1(\theta)$
	0	$G2(\theta)$
	$-\phi$	$G4(\theta)$
	$-2\phi$	
	$\vdots$	$\vdots$
COUNTER-CLOCKWISE	$\vdots$	$\vdots$

FIG. 3B

BUTTON ID	ANGLE RANGE	VALUE
# 1	$\theta_1 - \theta_2$	func <sub>a</sub> ()
# 2	$\theta_n - \theta_m$	func <sub>b</sub> ()
$\vdots$	$\vdots$	$\vdots$

**FIG. 4A**



**FIG. 4B**

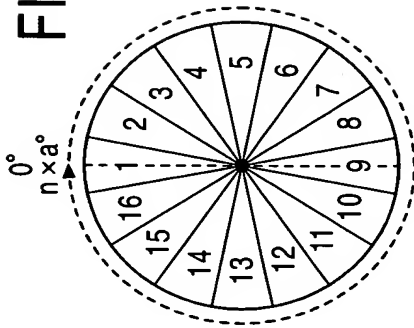


FIG. 4E

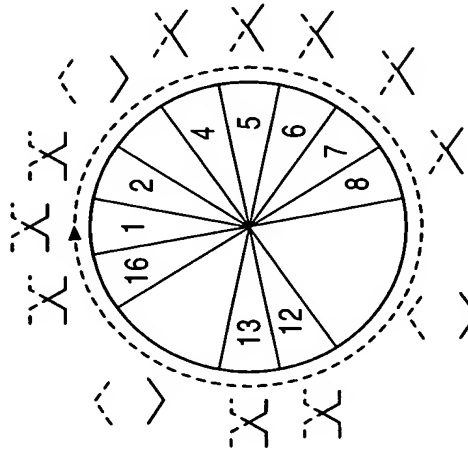


FIG. 4D

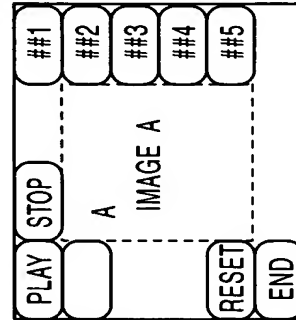


FIG. 4C

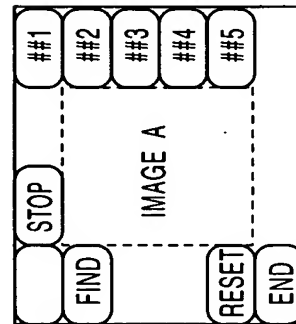
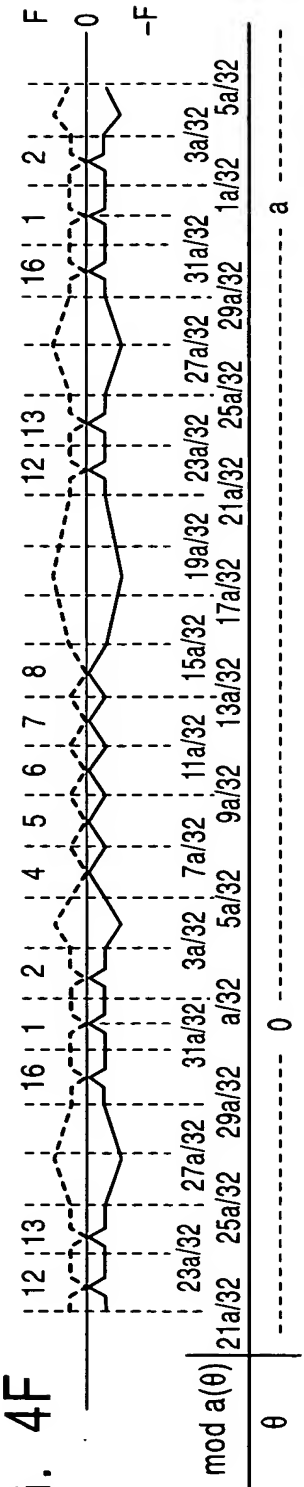


FIG. 4F

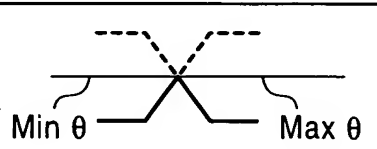
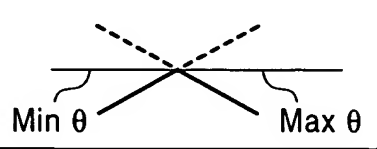
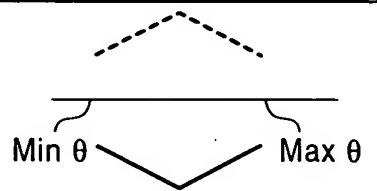


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FIG. 5A

image	(A, x, y-x, y)
button	(type=command style, label, value, x, y-x, y)
button	(type=command style, label, value, x, y-x, y)
	⋮
button	(type=item style, label, value, x, y-x, y)
button	(type=item style, label, value, x, y-x, y)

FIG. 5B

DISPLAY ELEMENT	FORCE PATTERN
COMMAND	 <div style="display: flex; justify-content: space-between; width: 100%;"> <span>+F</span> <span>0</span> <span>-F</span> </div>
ITEM	 <div style="display: flex; justify-content: space-between; width: 100%;"> <span>+F</span> <span>0</span> <span>-F</span> </div>
SPACE	 <div style="display: flex; justify-content: space-between; width: 100%;"> <span>+F</span> <span>0</span> <span>-F</span> </div>

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FIG. 6A

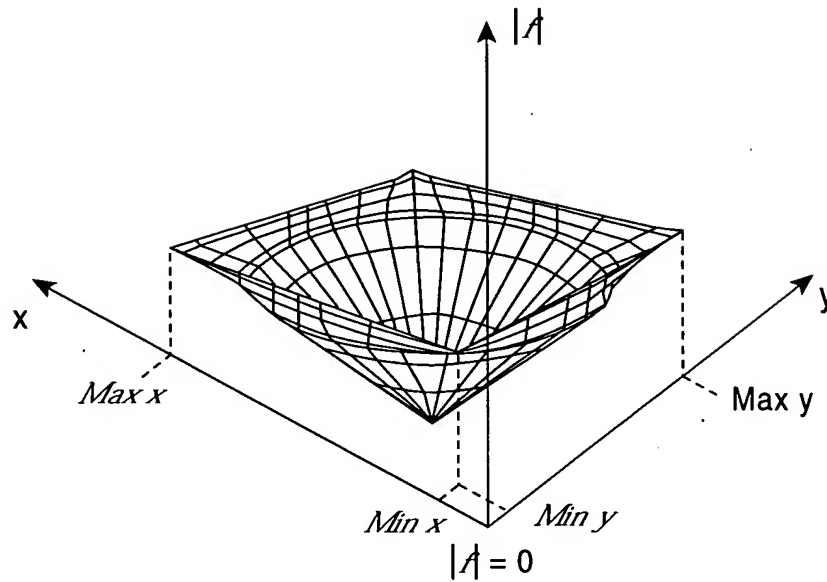


FIG. 6B

